

**AMENDMENTS TO THE CLAIMS:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**LISTING OF CLAIMS:**

1. **(currently amended)** A An isolated microorganism strain belonging to *Streptomyces cyaneogriseus* subspecies *noncyanogenus* comprising gene groups of avernectin aglycon bionthesis of *Streptomyces avermitilis* and having the ability to produce C-13 glycosidated nemadectin or C-13 hydroxylnemadectin.

2. **(currently amended)** ~~The microorganism strain according to claim 1, wherein the microorganism strain having ability to produce C-13 glycosidated nemadectin~~ An isolated microorganism strain belonging to *Streptomyces cyaneogriseus* subspecies *noncyanogenus* and having ability to produce C-13 glycosidated nemadectin, wherein said microorganism strain is *Streptomyces cyaneogriseus* subsp. *noncyanogenus* ΔnemA4::vph attB<sub>TG1</sub>::aveA4-aveA3-aveE attB<sub>Φ<sub>31</sub></sub>::aveR attB<sub>R4</sub>::aveBI-BVIII (FERM BP-8394).

3. **(withdrawn-currently amended)** ~~[[A]]~~ An isolated microorganism strain belonging to *Streptomyces cyaneogriseus* subspecies *noncyanogenus* comprising gene groups of avernectin aglycon bionthesis of *Streptomyces avermitilis* and having ability to produce C-13 hydroxylnemadectin.

4. **(withdrawn)** The microorganism strain according to claim 3 wherein the strain having ability to produce C-13 hydroxynemadectin is *Streptomyces cyaneogriseus* subspecies noncyanogenus  $\Delta$ emA4::vph attB<sub>T01</sub>::aveA4-aveA3-aveE attB<sub>031</sub>::aveR (FERM BP-8395).

5. **(withdrawn-currently amended)** A process for manufacturing C-13 hydroxynemadectin comprising culturing a microorganism belonging to *Streptomyces cyaneogriseus* subspecies noncyanogenus comprising gene groups of avernectin aglycon bionthesis of *Streptomyces avermitilis* and having the ability to produce C-13 hydroxynemadectin in a medium, producing and accumulating C-13 hydroxynemadectin in a culture medium, and collecting C-13 hydroxynemadectin from the cultured mass.

6. **(withdrawn-currently amended)** A process for manufacturing C-13 glycosidated nemadectin comprising culturing a microorganism belonging to *Streptomyces cyaneogriseus* subspecies noncyanogenus comprising gene groups of avernectin aglycon bionthesis of *Streptomyces avermitilis* and having ability to produce C-13 glycosidated nemadectin in a medium, producing and accumulating C-13 glycosidated nemadectin in a culture medium, and collecting C-13 glycosidated nemadectin from the cultured mass.

7-9. (cancelled)

10. (withdrawn-currently amended) A method for preparation of the microorganism described in claim [[9]] 1 ~~belonging to Streptomyces cyaneogriseus subspecies noncyanogenus, maintaining comprising introducing~~ gene groups of avermectin aglycon biosynthesis of Streptomyces avermitilis into a microorganism belonging to Streptomyces cyaneogriseus subspecies noncyanogenus and having ability to produce C-13 glycosidated nemadectin.

11. (withdrawn-currently amended) A nemadectin non-producing microorganism strain belonging to Streptomyces cyaneogriseus subspecies noncyanogenus and ~~inserting~~ comprising a viomycin resistant gene in the region coding nemadectin aglycon biosynthesis genes nemA3-4 operon KS10 (KS10 insertion mutant).

12. (withdrawn) The microorganism strain according to claim 11 wherein the nemadectin non-producing microorganism strain is Streptomyces cyaneogriseus subspecies noncyanogenus  $\Delta$ nemA4::vph (FERM BP-8393).

13. (withdrawn-currently amended) [[A]] The microorganism strain ~~belonging to Streptomyces cyaneogriseus subspecies noncyanogenus, maintaining according to claim 11, further comprising~~ avermectin

aglycon biosynthesis genes aveA3-4 of *Streptomyces avermitilis* in the KS10 insertion mutant, and having ability to form a hybrid PKS with NemA1-2 and AVES3-4.

**14. (withdrawn-currently amended)** ~~A microorganism strain belonging to *Streptomyces cyaneogriseus* subspecies *noncyanogenus* and having ability to form a hybrid PKS with NemA1-2 and AVES3-4,~~  
The microorganism strain according to claim 13, wherein the microorganism strain ~~maintains~~ comprises a regulator gene aveR of avermectin biosynthesis genes of *Streptomyces avermitilis*.

**15. (withdrawn-currently amended)** ~~A microorganism strain belonging to *Streptomyces cyaneogriseus* subspecies *noncyanogenus* and having ability to form a hybrid PKS with NemA1-2 and AVES3-4,~~  
~~wherein the microorganism strain maintains a regulator gene aveR of avermectin biosynthesis genes and~~ The microorganism strain according to claim 14, further comprising an avermectin glycosidation and [[an]] oleandrose biosynthesis genes aveBI-BVIII of *Streptomyces avermitilis*.